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APPLICATION NO.	FILING DATE	· FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/796,525	03/09/2004	Holger Warth	PO-8047/LeA 35,936	1958
34947	7590 10/31/2006		EXAMINER	
LANXESS CORPORATION 111 RIDC PARK WEST DRIVE PITTSBURGH, PA 15275-1112			RONESI, VICKEY M	
			ART UNIT	PAPER NUMBER
	•		1714	
•	· DATE MAI		DATE MAILED: 10/31/200	6

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
Office Action Summany	10/796,525	WARTH ET AL.				
Office Action Summary	Examiner	Art Unit				
	Vickey Ronesi	1714				
The MAILING DATE of this communication apportant Period for Reply	ears on the cover sheet with the c	orrespondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	TE OF THIS COMMUNICATION 6(a). In no event, however, may a reply be tim ill apply and will expire SIX (6) MONTHS from to cause the application to become ABANDONED	l. ely filed the mailing date of this communication. 0 (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on						
3) Since this application is in condition for allowan	Since this application is in condition for allowance except for formal matters, prosecution as to the ments is					
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
4)⊠ Claim(s) <u>1-10</u> is/are pending in the application.						
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1-10</u> is/are rejected.						
7) Claim(s) is/are objected to.) ☐ Claim(s) is/are objected to.					
8) Claim(s) are subject to restriction and/or election requirement.						
Application Papers						
9)⊠ The specification is objected to by the Examine	r.					
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119						
12)⊠ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a)⊠ All b)□ Some * c)□ None of:						
1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No						
3. Copies of the certified copies of the priority documents have been received in this National Stage						
application from the International Bureau (PCT Rule 17.2(a)).						
* See the attached detailed Office action for a list of the certified copies not received.						
Attachment(s)						
1) Notice of References Cited (PTO-892)	(PTO-413)					
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08)	ate atent Application					
Paper No(s)/Mail Date <u>8/19/04, 3/9/04</u> .	6) Other:					

DETAILED ACTION

Specification

1. The specification is objected to as failing to provide proper antecedent basis for the claimed subject matter. See 37 CFR 1.75(d)(1) and MPEP § 608.01(o). Correction of the following is required: there is no support for amounts in percentages as recited in claim 2.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. Claims 1-10 are rejected under 35 U.S.C. 103(a) as being unpatentable over Bruls et al (US 5,756,576, cited on IDS dated 3/9/2004) in view of Kurasawa et al (US 2002/0040090, cited on IDS dated 8/19/2004).

Bruls et al discloses a polymer composition for use in molded articles (col. 5, lines 3-17) comprising 20-90 wt % (abstract) thermoplastic such as exemplified polyamide (col. 5, lines 35-36); 5-79 wt % (abstract) of a graft copolymer which is exemplified as ABS (col. 5, line 31) which has a backbone having a Tg of less than 0°C (col. 2, lines 44-45); 1-50 wt % (abstract) of a terpolymer which is exemplified as a terpolymer of styrene, acrylonitrile, and maleic anhydride (col. 5, lines 37-38); ptionally conductive fibers (col. 5, lines 21-22); and other additives (col. 5, lines 18-24). For exemplified amounts of polymers, see the first table in col. 6.

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While Bruls et al discloses the use of conductive fibers, it does not discloses the use of carbon nanofibrils in a specified amount.

Kurasawa et al discloses thermoplastic resin composition comprising 0.1-20 wt % carbon nanofibrils and teaches that hollow nanofbrils (paragraph 0056) in thermoplastic resin compositions provide not only the desirably improved conductivity but also excellent mechanical strength, heat resistance, and anti-static performance (paragraph 0102).

Given that Bruls et al is open to the use of conductive fibers and further given that hollow nanofibrils are conductive fibers which also provide for a desirable combination of conductive and mechanical, thermal, and anti-static properties, it would have been obvious to one of ordinary skill in the art to utilize carbon nanofibrils in an amount of 0.1-20 wt % in the composition of Bruls et al to obtain a conductive thermoplastic composition.

Conclusion

3. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. The International Search Report for PCT/EP04/001946 has been considered. The X references, EP 1 125 985, US 2002/040090, and US 2002/183435, have been fully considered, however, they have not been used in the prior art rejections of record because they do not disclose or suggest a composition comprising polyamide, graft copolymer, a terpolymer, and carbon nanofibrils.

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4. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Vickey Ronesi whose telephone number is (571) 272-2701. The

examiner can normally be reached on Monday - Friday, 8:30 a.m. - 5:00 p.m.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Vasu Jagannathan can be reached on (571) 272-1119. The fax phone number for the

organization where this application or proceeding is assigned is (571) 273-8300.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

10/25/2006

Vickey Ronesi

CALLIE E. SHOSHO
PRIMARY EVALUATION

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